

## **ABSTRACT**

Methods of identifying compounds that modulate target polypeptide activity, where a test compound is combined with a target polypeptide and a substrate of the target polypeptide and where a determination is made as to whether the test compound modulates activity of the target polypeptide. The test compounds could be small molecule drugs used for treatment of obesity, diabetes, insulin resistance, and for enhancement of insulin secretion. Target polypeptides and their corresponding nucleic acids as well as their variants are also disclosed.

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